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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/790,656 03/01/2004		03/01/2004	Chirag D. Dalal	VRT0126US	9561
60429	7590	11/02/2006		EXAMINER	
CSA LLP 4807 SPICEWOOD SPRINGS RD.				LI, ZHUO H	
BLDG. 4, SUITE 201			ART UNIT	PAPER NUMBER	
AUSTIN, TX 78759				2185	
				DATE MAIL ED: 11/02/2004	,

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Action Summary		10/790,656	DALAL ET AL.					
		Examiner	Art Unit					
		Zhuo H. Li	2185					
The Period for Re	e MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address					
A SHORTI WHICHEV - Extensions after SIX (6) - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD FOR REPLY (ER IS LONGER, FROM THE MAILING DAY of time may be available under the provisions of 37 CFR 1.13 MONTHS from the mailing date of this communication. If for reply is specified above, the maximum statutory period with ply within the set or extended period for reply will, by statute, received by the Office later than three months after the mailing and term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status								
1)⊠ Res	ponsive to communication(s) filed on <u>01 Ma</u>	arch 200 <u>4</u> .						
2a) <u></u> This	This action is FINAL . 2b)⊠ This action is non-final.							
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
clos	ed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.					
Disposition o	f Claims							
4)⊠ Claiı	4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.							
4a) (4a) Of the above claim(s) is/are withdrawn from consideration.							
5)∭ Claii	m(s) is/are allowed.							
·	m(s) <u>1-21</u> is/are rejected.							
· <u> </u>	m(s) is/are objected to.							
8)∐ Claiı	m(s) are subject to restriction and/or	relection requirement.						
Application P	apers							
9) <u></u> The s	specification is objected to by the Examiner	г.						
10)⊠ The o	drawing(s) filed on <u>01 March 2004</u> is/are: a	a)⊠ accepted or b)⊡ objected to	by the Examiner.					
Appli	icant may not request that any objection to the o	drawing(s) be held in abeyance. See	∋ 37 CFR 1.85(a).					
Repl	acement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
11)☐ The o	oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under	r 35 U.S.C. § 119							
•	owledgment is made of a claim for foreign b) Some * c) None of: Certified copies of the priority documents		⊢(d) or (f).					
2.	• • •		on No					
3.	Copies of the certified copies of the prior	• • • • • • • • • • • • • • • • • • • •						
	application from the International Bureau	(PCT Rule 17.2(a)).						
* See th	ne attached detailed Office action for a list o	of the certified copies not receive	d.					
Attachment(s)								
	eferences Cited (PTO-892)	4) Interview Summary						
3) X Information	raftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO/SB/08))/Mail Date 7-30/2004.	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 7/30/2004 has been considered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-5, 8-16 and 19-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Russell (US PAT. 6,826,600).

Regarding claim 1, Russell discloses a method comprising a computer system (100, figure 1) creating a first storage object (150, figure 1), wherein the first storage object is created to have a property (col. 10 lines 58-61 and col. 14 lines 13-18, i.e., a client computer system operating software to generate local object definitions and object property 152 being a local object identification that identifies the local object definitions), the computer system creating a second storage object out of the first storage object, wherein the second storage object depends on the property of the first storage object (col. 11 lines 2-10 and col. 14 lines 29-54, i.e., a sever creating a global object specification corresponding local object definitions), and the computer

system modifying the first storage object, wherein the modified first storage object maintains the property upon which the second storage object depends (col. 11 lines 10-24, col. 14 lines 55-62 and col. 15 lines 16-22, i.e., providing new global object specification object definitions to the client and replacing the local object specification with the new global object specification).

Regarding claim 2, Russell discloses the computer system creating a third storage object, wherein the third storage object is created to have a property (col. 19 lines 28-56, i.e., creating a new object specification once a collaboration session is underway), wherein the computer system creates the second storage object out of the first and third storage object, wherein the second storage object depends on the properties of the first and third objects (col. 20 lines 1-62, i.e., server 130 creating a new object definitions, read as third storage object, within the global object identification, read as second storage object based on the command or other instruction from client such that the new object definition includes a new unique global object definition and any object properties specified in the object operation are also included as object properties).

Regarding claim 3, Russell teaches the steps of creating the first storage object comprising creating a first description of the first object and transmitting all or a portion of the first description to a first computing system (col. 10 line 58 through col. 11 line 2), and creating the second storage object comprising creating a second description of the first storage object and transmitting all or a portion of the second description to a second computer system (col. 11 lines 2-12).

Regarding claim 4, Russell teaches the step of modifying the first storage object comprising creating a modified first description of the modified first storage object and transmitting the modified first description to the first computer system (col. 11 lines 13-24).

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Regarding claim 5, Russell teaches the second description comprising a configuration map that maps a local memory block of the second storage object to a logical memory block of the first storage object (col. 18 lines 1-11).

Regarding claim 8, Russell discloses a method comprising a computer system (100, figure 1) creating a first storage object (150, figure 1), wherein the first storage object is created to have a individual or collective properties (col. 10 lines 58-61 and col. 14 lines 13-18, i.e., a client computer system operating software to generate local object definitions and object property 152 being a local object identification that identifies the local object definitions), the computer system creating a second storage object out of the first storage object, wherein the second storage object depends on the individual or collective properties of the first storage object (col. 11 lines 2-10 and col. 14 lines 29-54, i.e., a sever creating a global object specification corresponding local object definitions), and the computer system receiving information that the property of a storage object of the one or more first storage objects has changed and that the second object can no longer depend on the individual or collective properties of the one or more first storage object (col. 11 lines 10-24, col. 18 lines 12-16, i.e., determining that the local in global object specifications do not contain corresponding object definitions), the computer system responding after receiving the information (col. 18 lines 16-21, i.e., providing an indication that it did not map the local object specification to the global object specification).

Regarding claim 9, Russell discloses the computer responding comprising generating a message indicating that warning that the second storage object con no longer depend on the individual or collective properties of the one or more storage object (col. 18 lines 16-21).

Regarding claims 10-11, Russell discloses the computer responding comprising replacing the storage object with a new storage object, which modifies the storage object (col. 18 lines 22-39).

Regarding claim 12, the limitations of the claim are rejected as the same reasons as set forth in claim 1.

Regarding claim 13, the limitations of the claim are rejected as the same reasons as set forth in claim 2.

Regarding claim 14, the limitations of the claim are rejected as the same reasons as set forth in claim 3.

Regarding claim 15, the limitations of the claim are rejected as the same reasons as set forth in claim 4.

Regarding claim 16, the limitations of the claim are rejected as the same reasons as set forth in claim 5.

Regarding claims 19-21, the limitations of the claims are rejected as the same reasons as set forth in claim 1.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 6-7 and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Russell (US PAT. 6,826,600) in view of Furuhashi et al. (US 2003/0229698 hereinafter Furuhashi).

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Regarding claims 6-7, Russell differs from the claimed invention in not specifically teaching creating the first storage object comprising allocating a logical unit or a physical storage device of a data storage subsystem to the first storage object, wherein the first description comprises a configuration map that maps a logical memory block of the first storage object to a logical memory block of the logical unit or to a physical memory block of the physical storage device. However, Furuhashi teaches information processing system having data storage area allocating unit (224, figure 1), read as a logical unit, for mapping a logical memory block of a first storage object to a logical memory block of the logical unit ([0045], i.e., allocating unit specifies a position of a storage area to which the data is stored in respond of read kind or utilization purpose on the bases of characteristic information of the memory device) in order to improve the access performance to data and its reliability in a technique of allocating data to a plurality of storage areas of a storage. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Russell in creating the first storage object comprising allocating a logical unit or a physical storage device of a data storage subsystem to the first storage object, wherein the first description comprises a configuration map that maps a logical memory block of the first storage object to a logical memory block of the logical unit or to a physical memory block of the physical storage device, as per teaching of Furuhashi, in order to improve the access performance to data and its reliability in the technique of allocating the data to the plurality of storage areas of the storage.

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Regarding claims 17-18, the limitations of the claims are rejected as the same reasons as set forth in claims 6-7.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Dalal et al. (US 2006/0069864) discloses a method to detect and suggest corrective action when performance and availability rule are violated in an environment deploying virtualization at multiple levels (abstract). Schultz (US PAT. 6,192,371) discloses a system for morphing an object form one class to another in an object oriented computing environment implementation by a relational database (abstract). Baisley et al. (US PAT. 6,453,324) discloses an improved method for maintaining a version history of objects in a repository (col. 2 lines 13-52). D'Errico et al. (US PAT. 6,457,139) discloses a method for providing a host computer with information relating to the mapping of logical volumes within an intelligent storage system (abstract).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zhuo H. Li whose telephone number is 571-272-4183. The examiner can normally be reached on Tues Fri 9:00am 6:30pm and alternate Monday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sanjiv Shah, can be reached on 571-272-4098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Zhuo H. Li Patent Examiner

SANJIV SHAH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100